

The RHIC / AGS User Meeting at DNP

Nils Feege

Joint fsPhenix / EIC

Detector Simulation Meeting

November 3 2015



Santa Fe, New Mexico

Convention Center

Sweeney D

RHIC & AGS Users' Group Open Forum Meeting



Guest Speakers

Renee Fatemi, University of Kentucky
Nils Feege, Stony Brook University
Krishna Rajagopal, Massachusetts Institute of Technology
Bjoern Schenke, Brookhaven National Laboratory
Zhangbu Xu, Brookhaven National Laboratory

*Light dinner will be served, courtesy of Brookhaven Science Associates
Contact: Lijuan Ruan, RHIC/AGS Users Executive Committee—ruan@bnl.gov

NSAC long-range plan report Krishna Rajagopal

"The upgraded RHIC facility provides unique capabilities that must be utilized to explore the **properties and phases of quark and gluon matter** in the highest temperatures of the early universe and to explore the **spin structure of the proton**."

"We recommend a high-energy highluminosity polarized **EIC** as the **highest priority** for new facility construction following the completion of FRIB."

NSAC long-range plan report Krishna Rajagopal

sPHENIX physics beyond Jet/Upsilon Nils Feege

STAR physics beyond BESII Zhangbu Xu

Future RHIC Spin and cold QCD Program
Renee Fetami

Forward heavy ion measurements to constrain 3+1D hydro Björn Schenke

Performance of the sPHENIX-based EIC detector for 20 GeV electrons?

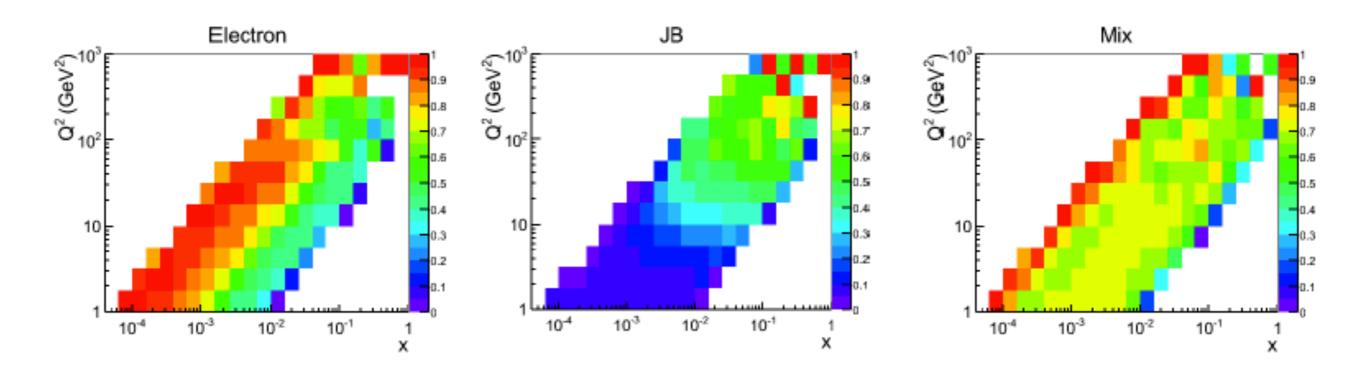


Figure 4-19: For 15 GeV \times 250 GeV beam energy configuration, event purity in (x,Q^2) bins, defined by the likelihood of an event to remain in its true (x,Q^2) bin after resolutions smearing; left – for electron method, middle – for Jacquet-Blondel method, and right – for "Mixed" method, when Q^2 is defined from electron method, y is defined from Jacquet-Blondel method, and $x=Q^2/(sy)$.

eRHIC CDR (arXiv1409.1633)